Collapsed Z Stacks and 3D Projection with Ziess Images

For Images Acquired on the 510:

Collapsed Z Stack:

1. Go to Projection in the main menu bar.
2. For Turning Axis select Y.
3. First Angle is set at 0.
4. Number of projections is set at 1.
5. Difference Angle does not matter what it is set at.
6. Click Apply.

   Image will have the same name but with an * added on the end of the file. You can change the name if you wish by clicking the save button in that window.

Projection of Collapsed Z Stack Images:

1. Go to Projection.
2. In the Transparency Tab check for mode to be in Maximum.
3. In the Projection Tab select Y for the Turning Axis
4. For Number of Projections and Difference Angle the number must equal how much you wish to have the image turn around.

   Example: If we want the image to turn 180 degrees we make the Number of projections = 18 and the Differentiation Angle = 10. For 360 degrees you make the Number of projections = 36 and the Differentiation angle = 10.
5. Check Preview if you wish to check how your image will turn out. You must use the slider to see the rotation.

6. **Click Apply.**

   Again, image will have same name but with a * added to the end of the file.

   If doing this on the microscopes you must first select 3D view in the menu to then select Projection.

For Images Acquired on the 710:

Collapsed Z stack:

1. **In the Processing Tab look for Maximum Intensity Projection [first one}.**
2. **Click Apply.**
3. **Save image as a different name.**